

# **Floating Liquefied Natural Gas (FLNG) Market – Global Industry Size, Share, Trends, Opportunity, and Forecast Segmented By Technology (LNG FPSO, FSRU, Others) By End User (Small/Mid-Scale, Large Scale, Others), By Region & Competition, 2019-2029F**

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## **Abstracts**

Global Floating Liquefied Natural Gas (FLNG) Market was valued at USD 22.68 Billion in 2023 and is expected to reach USD 42.83 billion by 2029 with a CAGR of 11.01% during the forecast period. The Global Floating Liquefied Natural Gas (FLNG) market is driven by increasing global demand for natural gas as a cleaner energy source, technological advancements making FLNG more viable and cost-effective, and the flexibility of FLNG units to access remote gas reserves. Environmental benefits and supportive government policies also play crucial roles. Additionally, FLNG offers a cost-effective alternative to onshore facilities by reducing infrastructure costs, enhancing energy security through diversified supply sources, and enabling strategic partnerships that drive investment and innovation in the sector.

### **Key Market Drivers**

#### **Increasing Global Demand for Natural Gas**

The escalating global demand for natural gas is one of the primary drivers of the Floating Liquefied Natural Gas (FLNG) market. As the world transitions towards cleaner energy sources, natural gas is increasingly favored due to its lower carbon emissions compared to coal and oil. Natural gas emits approximately 50% less carbon dioxide than coal and 20-30% less than oil when burned, making it a crucial component in global efforts to reduce greenhouse gas emissions and combat climate change. The International Energy Agency (IEA) projects that natural gas demand will continue to rise,

driven by its role in electricity generation, industrial processes, and as a fuel for heating and transportation. In 2023, investments in city gas distribution (CGD) networks surpassed ₹50,000 crore (USD 6 billion), with multiple companies broadening their operations into new geographic regions.

FLNG technology plays a vital role in meeting this demand by enabling the exploitation of offshore gas fields that are otherwise difficult to access. Traditional onshore LNG facilities require extensive infrastructure, including pipelines to transport gas from offshore fields to the mainland, which can be prohibitively expensive and logistically challenging. FLNG units, on the other hand, allow for the extraction, liquefaction, and storage of natural gas directly at the offshore site, significantly reducing the need for onshore infrastructure and associated costs. This capability is particularly important for accessing remote and stranded gas reserves that would be economically unviable using traditional methods.

FLNG units provide a flexible and mobile solution, capable of relocating to different fields as needed. This flexibility allows energy companies to optimize production and respond swiftly to changing market conditions, enhancing their ability to meet global natural gas demand. As countries around the world continue to phase out coal and reduce their reliance on oil, the role of natural gas, and consequently FLNG technology, is expected to become even more critical. This transition is further supported by government policies and international agreements aimed at promoting cleaner energy sources and reducing carbon emissions, creating a favorable environment for the growth of the FLNG market.

### Technological Advancements and Cost-Effectiveness

Technological advancements have significantly propelled the FLNG market by making the technology more efficient and cost-effective. Innovations in offshore drilling, liquefaction processes, and storage solutions have addressed many of the challenges previously associated with FLNG operations. For instance, advancements in subsea technology and floating production systems have improved the safety and reliability of offshore gas extraction. Enhanced liquefaction processes, such as the development of more efficient cryogenic technologies, have reduced the energy required for liquefaction, thereby lowering operational costs and increasing the economic viability of FLNG projects.

The cost-effectiveness of FLNG technology is a major driver of its adoption. Unlike traditional onshore LNG facilities, which require significant investment in land

acquisition, pipeline infrastructure, and construction of processing plants, FLNG units consolidate these functions onto a single floating platform. This consolidation not only reduces capital expenditure but also shortens the time required to bring a gas field into production. The ability to bypass the need for extensive onshore infrastructure makes FLNG a particularly attractive option for developing gas reserves in remote or politically unstable regions, where building and maintaining land-based facilities would be challenging and costly.

The modular nature of FLNG units allows for scalability, enabling operators to adjust capacity based on market demand. This adaptability helps mitigate financial risks associated with fluctuating energy prices and varying demand levels. Furthermore, the mobility of FLNG units allows operators to move them between different fields and projects, maximizing asset utilization and operational efficiency. These economic advantages, combined with technological innovations, have made FLNG a compelling solution for tapping into offshore gas reserves, thereby driving its adoption in the global energy market.

Overall, the synergy of increasing global demand for cleaner energy and continuous technological improvements positions the FLNG market for robust growth. As countries strive to balance their energy needs with environmental commitments, FLNG technology offers a practical and efficient means of accessing natural gas reserves, contributing to the global energy transition and the sustainability of energy production.

## Key Market Challenges

### High Capital Expenditure and Financial Risks

One of the primary challenges facing the Global Floating Liquefied Natural Gas (FLNG) market is the significant capital expenditure required for the development and deployment of FLNG units. Building an FLNG facility involves substantial investment in advanced technology, specialized equipment, and complex engineering. The construction of these units is intricate, often taking several years and requiring high precision to ensure safety and efficiency. The financial commitment is further compounded by the costs associated with maintaining and operating these units in harsh offshore environments. The initial capital outlay can be a significant barrier to entry, especially for smaller companies or those with limited financial resources.

The financial risks associated with FLNG projects are considerable. The market for natural gas is subject to volatility, influenced by factors such as geopolitical events,

fluctuations in global demand, and changes in energy prices. This volatility can impact the profitability of FLNG projects, making it challenging for companies to secure the necessary financing. Investors and financial institutions may be wary of committing large sums to projects with uncertain returns, particularly in regions where political instability or regulatory changes could affect project viability. The long payback period for FLNG investments further exacerbates these financial risks, as it can take many years before projects become profitable.

The complexity and novelty of FLNG technology present technical and operational risks that can lead to cost overruns and delays. Engineering challenges, unexpected technical issues during construction or operation, and the need for specialized skills and expertise can all contribute to increased costs and project timelines. These uncertainties can deter investment and hinder the growth of the FLNG market. To mitigate these challenges, companies need to adopt robust risk management strategies, secure long-term contracts, and explore innovative financing models. Collaboration with experienced partners and leveraging technological advancements can also help reduce costs and enhance project feasibility.

### Environmental and Regulatory Hurdles

The FLNG market faces significant environmental and regulatory challenges that can impact the development and operation of FLNG projects. Environmental concerns related to offshore drilling and natural gas extraction are substantial, particularly in sensitive marine ecosystems. The potential for oil spills, gas leaks, and other environmental incidents poses a significant risk, necessitating stringent safety measures and environmental protections. Ensuring compliance with environmental regulations and minimizing the ecological impact of FLNG operations require substantial investment in safety systems, monitoring, and mitigation strategies, which can increase project costs and complexity.

Regulatory frameworks governing FLNG projects vary widely across different regions and jurisdictions. Navigating the complex regulatory landscape can be challenging, as companies must comply with a myriad of local, national, and international regulations. These regulations cover a broad spectrum of issues, including environmental protection, safety standards, and maritime laws. Obtaining the necessary permits and approvals can be a lengthy and bureaucratic process, potentially causing delays and increasing costs. In some regions, regulatory uncertainty and frequent changes in policies can create additional risks for FLNG projects, making long-term planning and investment more difficult.

The evolving nature of environmental regulations also poses a challenge for the FLNG market. As global awareness of climate change and environmental sustainability grows, regulatory standards are becoming increasingly stringent. Companies must continuously adapt to new regulations, which may require implementing advanced technologies and practices to reduce emissions and environmental impact. This ongoing need for compliance can add to operational costs and necessitate continuous investment in research and development.

To address these environmental and regulatory challenges, companies in the FLNG market need to engage proactively with regulators, stakeholders, and local communities. Developing comprehensive environmental impact assessments, implementing best practices for environmental management, and investing in cutting-edge safety and monitoring technologies are essential. Additionally, fostering transparent and collaborative relationships with regulatory authorities can help streamline the approval process and ensure compliance with evolving standards. By prioritizing environmental stewardship and regulatory compliance, the FLNG industry can mitigate risks, enhance sustainability, and build public trust, supporting the long-term viability of FLNG projects.

## Key Market Trends

### Technological Innovations and Advancements

Technological innovations and advancements are driving significant growth and evolution in the Global Floating Liquefied Natural Gas (FLNG) market. The FLNG industry has seen substantial progress in engineering and design, leading to more efficient and reliable units. One of the key advancements is the development of more efficient liquefaction technologies, which reduce energy consumption and operational costs. These technologies enhance the overall economic viability of FLNG projects, making them more attractive to investors and stakeholders. Additionally, improvements in cryogenic materials and insulation technologies have optimized the storage and transport of liquefied natural gas, ensuring its safe and efficient handling.

Another crucial area of technological advancement is the integration of digital technologies and automation in FLNG operations. The adoption of advanced sensors, data analytics, and artificial intelligence (AI) has revolutionized the monitoring and management of FLNG units. These technologies enable real-time monitoring of critical parameters, predictive maintenance, and automated control systems, enhancing

operational efficiency and reducing downtime. The use of AI and machine learning algorithms helps in optimizing production processes, identifying potential issues before they become critical, and improving overall safety standards. Digital twins, virtual replicas of physical FLNG units, allow for the simulation and testing of various scenarios, leading to better decision-making and risk management.

Advancements in offshore drilling and subsea technologies have expanded the capabilities of FLNG units to operate in deeper and more challenging waters. Innovations in floating production systems, including mooring and riser technologies, have improved the stability and reliability of FLNG units in harsh marine environments. These technological advancements enable the exploitation of previously inaccessible gas reserves, broadening the scope and potential of FLNG projects. Additionally, the development of modular and scalable FLNG designs allows for flexibility in capacity and production, catering to varying market demands and project sizes.

The continuous evolution of technology in the FLNG sector not only enhances the efficiency and cost-effectiveness of operations but also addresses key challenges related to safety, environmental impact, and regulatory compliance. As the industry continues to innovate, the adoption of cutting-edge technologies will play a pivotal role in shaping the future of the FLNG market. Companies that invest in research and development and embrace technological advancements are likely to gain a competitive edge, driving growth and sustainability in the global FLNG market.

## Segmental Insights

### End User Insights

The Large Scale segment dominated the Global Floating Liquefied Natural Gas (FLNG) Market in 2023, The Large Scale segment has established its dominance in the Global Floating Liquefied Natural Gas (FLNG) market, driven by its capability to deliver substantial volumes of liquefied natural gas efficiently and cost-effectively. Large scale FLNG units, often characterized by their high production capacities and extensive storage facilities, cater to the growing global demand for natural gas, which is increasingly favored as a cleaner alternative to coal and oil. These large-scale operations benefit from economies of scale, reducing the per-unit cost of LNG production and making them economically attractive to both investors and buyers.

The technological advancements and engineering expertise required for large-scale FLNG projects have significantly evolved, making it feasible to construct and operate

massive FLNG units in offshore locations. These advancements include more efficient liquefaction processes, robust storage solutions, and improved safety and monitoring systems, all of which contribute to the reliability and efficiency of large-scale FLNG operations. Moreover, large-scale FLNG units offer the flexibility to exploit gas reserves in remote and deep-water locations, which were previously inaccessible or uneconomical using traditional methods.

The large-scale segment's dominance is further supported by strategic investments and collaborations among major energy companies, technology providers, and financial institutions. These partnerships enhance the capability to undertake complex and capital-intensive FLNG projects, ensuring their successful execution and operation. Additionally, large-scale FLNG units play a pivotal role in global LNG trade by enabling the transportation of significant quantities of LNG to international markets, thereby meeting the rising global energy demand and contributing to energy security.

In summary, the large-scale segment's dominance in the FLNG market is attributed to its ability to leverage technological advancements, achieve economies of scale, and facilitate strategic partnerships, thereby driving the growth and sustainability of global LNG supply.

## Regional Insights

In 2023, North America dominated the Global Floating Liquefied Natural Gas (FLNG) Market, North America has emerged as the dominant player in the Global Floating Liquefied Natural Gas (FLNG) market, driven by several key factors. The region boasts abundant natural gas reserves, particularly in the United States, where advancements in hydraulic fracturing and horizontal drilling have unlocked vast shale gas deposits. This surge in natural gas production has necessitated efficient solutions for liquefaction and export, positioning FLNG as a critical technology. Additionally, North America benefits from robust infrastructure and a favorable regulatory environment that supports energy innovation and development. The presence of major energy companies and technology providers in the region further accelerates the deployment and operation of FLNG units.

North America's strategic geographical location facilitates access to both Atlantic and Pacific markets, enhancing its capacity to meet global LNG demand. The region's commitment to reducing carbon emissions and transitioning to cleaner energy sources also drives the adoption of FLNG technology. Investments in research and development, coupled with government incentives and policies promoting LNG exports,

have solidified North America's leadership in the FLNG market. As a result, North American companies are at the forefront of developing and deploying advanced FLNG units, shaping the global market dynamics and setting industry standards.

### Recent Developments

In May 2024, Høegh LNG Holdings Ltd. announced a collaboration with Australian Industrial Energy Pty Ltd. (AIE) and Egyptian Natural Gas Holding Company (EGAS). This agreement involves deploying the Floating Storage and Regasification Unit (FSRU) Høegh Galleon to enhance energy security in Egypt.

### Key Market Players

Høegh LNG Group

Mitsui O.S.K. Lines, Ltd.

BASF SE

Golar LNG Limited

Eni S.p.A.

EXMAR GmbH

Woodside Energy Group Ltd

Shell plc

Excelerate Energy, Inc.

Petroleum Nasional Berhad (PETRONAS)

### Report Scope:

In this report, the Global Floating Liquefied Natural Gas (FLNG) Market has been segmented into the following categories, in addition to the industry trends which have

also been detailed below:

Floating Liquefied Natural Gas (FLNG) Market, By Technology:

LNG FPSO

FSRU

Others

Floating Liquefied Natural Gas (FLNG) Market, By End User:

Small/Mid-Scale

Large Scale

Others

Floating Liquefied Natural Gas (FLNG) Market, By Region:

North America

§ United States

§ Canada

§ Mexico

Asia-Pacific

§ China

§ India

§ Japan

§ South Korea

§ Indonesia

Europe

§ Germany

§ United Kingdom

§ France

§ Russia

§ Spain

South America

§ Brazil

§ Argentina

Middle East & Africa

§ Saudi Arabia

§ South Africa

§ Egypt

§ UAE

§ Israel

Competitive Landscape

Company Profiles: Detailed analysis of the major companies presents in the Global

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Floating Liquefied Natural Gas (FLNG) Market.

Available Customizations:

Global Floating Liquefied Natural Gas (FLNG) Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

## Contents

### **1. PRODUCT OVERVIEW**

- 1.1. Market Definition
- 1.2. Scope of the Market
- 1.3. Markets Covered
- 1.4. Years Considered for Study
- 1.5. Key Market Segmentations

### **2. RESEARCH METHODOLOGY**

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Key Industry Partners
- 2.4. Major Association and Secondary Sources
- 2.5. Forecasting Methodology
- 2.6. Data Triangulation & Validation
- 2.7. Assumptions and Limitations

### **3. EXECUTIVE SUMMARY**

### **4. VOICE OF CUSTOMERS**

### **5. GLOBAL FLOATING LIQUEFIED NATURAL GAS (FLNG) MARKET OUTLOOK**

- 5.1. Market Size & Forecast
  - 5.1.1. By Value
- 5.2. Market Share & Forecast
  - 5.2.1. By Technology (LNG FPSO, FSRU, Others)
  - 5.2.2. By End User (Small/Mid-Scale, Large Scale, Others)
  - 5.2.3. By Region
- 5.3. By Company (2023)
- 5.4. Market Map

### **6. NORTH AMERICA FLOATING LIQUEFIED NATURAL GAS (FLNG) MARKET OUTLOOK**

- 6.1. Market Size & Forecast

- 6.1.1. By Value
- 6.2. Market Share & Forecast
  - 6.2.1. By Technology
  - 6.2.2. By End User
  - 6.2.3. By Country
- 6.3. North America: Country Analysis
  - 6.3.1. United States Floating Liquefied Natural Gas (FLNG) Market Outlook
    - 6.3.1.1. Market Size & Forecast
      - 6.3.1.1.1. By Value
    - 6.3.1.2. Market Share & Forecast
      - 6.3.1.2.1. By Technology
      - 6.3.1.2.2. By End User
  - 6.3.2. Canada Floating Liquefied Natural Gas (FLNG) Market Outlook
    - 6.3.2.1. Market Size & Forecast
      - 6.3.2.1.1. By Value
    - 6.3.2.2. Market Share & Forecast
      - 6.3.2.2.1. By Technology
      - 6.3.2.2.2. By End User
  - 6.3.3. Mexico Floating Liquefied Natural Gas (FLNG) Market Outlook
    - 6.3.3.1. Market Size & Forecast
      - 6.3.3.1.1. By Value
    - 6.3.3.2. Market Share & Forecast
      - 6.3.3.2.1. By Technology
      - 6.3.3.2.2. By End User

## **7. ASIA-PACIFIC FLOATING LIQUEFIED NATURAL GAS (FLNG) MARKET OUTLOOK**

- 7.1. Market Size & Forecast
  - 7.1.1. By Value
- 7.2. Market Share & Forecast
  - 7.2.1. By Technology
  - 7.2.2. By End User
  - 7.2.3. By Country
- 7.3. Asia-Pacific: Country Analysis
  - 7.3.1. China Floating Liquefied Natural Gas (FLNG) Market Outlook
    - 7.3.1.1. Market Size & Forecast
      - 7.3.1.1.1. By Value
    - 7.3.1.2. Market Share & Forecast

- 7.3.1.2.1. By Technology
- 7.3.1.2.2. By End User
- 7.3.2. India Floating Liquefied Natural Gas (FLNG) Market Outlook
  - 7.3.2.1. Market Size & Forecast
    - 7.3.2.1.1. By Value
  - 7.3.2.2. Market Share & Forecast
    - 7.3.2.2.1. By Technology
    - 7.3.2.2.2. By End User
- 7.3.3. Japan Floating Liquefied Natural Gas (FLNG) Market Outlook
  - 7.3.3.1. Market Size & Forecast
    - 7.3.3.1.1. By Value
  - 7.3.3.2. Market Share & Forecast
    - 7.3.3.2.1. By Technology
    - 7.3.3.2.2. By End User
- 7.3.4. South Korea Floating Liquefied Natural Gas (FLNG) Market Outlook
  - 7.3.4.1. Market Size & Forecast
    - 7.3.4.1.1. By Value
  - 7.3.4.2. Market Share & Forecast
    - 7.3.4.2.1. By Technology
    - 7.3.4.2.2. By End User
- 7.3.5. Indonesia Floating Liquefied Natural Gas (FLNG) Market Outlook
  - 7.3.5.1. Market Size & Forecast
    - 7.3.5.1.1. By Value
  - 7.3.5.2. Market Share & Forecast
    - 7.3.5.2.1. By Technology
    - 7.3.5.2.2. By End User

## **8. EUROPE FLOATING LIQUEFIED NATURAL GAS (FLNG) MARKET OUTLOOK**

- 8.1. Market Size & Forecast
  - 8.1.1. By Value
- 8.2. Market Share & Forecast
  - 8.2.1. By Technology
  - 8.2.2. By End User
  - 8.2.3. By Country
- 8.3. Europe: Country Analysis
  - 8.3.1. Germany Floating Liquefied Natural Gas (FLNG) Market Outlook
    - 8.3.1.1. Market Size & Forecast
      - 8.3.1.1.1. By Value

- 8.3.1.2. Market Share & Forecast
  - 8.3.1.2.1. By Technology
  - 8.3.1.2.2. By End User
- 8.3.2. United Kingdom Floating Liquefied Natural Gas (FLNG) Market Outlook
  - 8.3.2.1. Market Size & Forecast
    - 8.3.2.1.1. By Value
  - 8.3.2.2. Market Share & Forecast
    - 8.3.2.2.1. By Technology
    - 8.3.2.2.2. By End User
- 8.3.3. France Floating Liquefied Natural Gas (FLNG) Market Outlook
  - 8.3.3.1. Market Size & Forecast
    - 8.3.3.1.1. By Value
  - 8.3.3.2. Market Share & Forecast
    - 8.3.3.2.1. By Technology
    - 8.3.3.2.2. By End User
- 8.3.4. Russia Floating Liquefied Natural Gas (FLNG) Market Outlook
  - 8.3.4.1. Market Size & Forecast
    - 8.3.4.1.1. By Value
  - 8.3.4.2. Market Share & Forecast
    - 8.3.4.2.1. By Technology
    - 8.3.4.2.2. By End User
- 8.3.5. Spain Floating Liquefied Natural Gas (FLNG) Market Outlook
  - 8.3.5.1. Market Size & Forecast
    - 8.3.5.1.1. By Value
  - 8.3.5.2. Market Share & Forecast
    - 8.3.5.2.1. By Technology
    - 8.3.5.2.2. By End User

## **9. SOUTH AMERICA FLOATING LIQUEFIED NATURAL GAS (FLNG) MARKET OUTLOOK**

- 9.1. Market Size & Forecast
  - 9.1.1. By Value
- 9.2. Market Share & Forecast
  - 9.2.1. By Technology
  - 9.2.2. By End User
  - 9.2.3. By Country
- 9.3. South America: Country Analysis
  - 9.3.1. Brazil Floating Liquefied Natural Gas (FLNG) Market Outlook

- 9.3.1.1. Market Size & Forecast
  - 9.3.1.1.1. By Value
- 9.3.1.2. Market Share & Forecast
  - 9.3.1.2.1. By Technology
  - 9.3.1.2.2. By End User
- 9.3.2. Argentina Floating Liquefied Natural Gas (FLNG) Market Outlook
  - 9.3.2.1. Market Size & Forecast
    - 9.3.2.1.1. By Value
  - 9.3.2.2. Market Share & Forecast
    - 9.3.2.2.1. By Technology
    - 9.3.2.2.2. By End User

## **10. MIDDLE EAST & AFRICA FLOATING LIQUEFIED NATURAL GAS (FLNG) MARKET OUTLOOK**

- 10.1. Market Size & Forecast
  - 10.1.1. By Value
- 10.2. Market Share & Forecast
  - 10.2.1. By Technology
  - 10.2.2. By End User
  - 10.2.3. By Country
- 10.3. Middle East & Africa: Country Analysis
  - 10.3.1. Saudi Arabia Floating Liquefied Natural Gas (FLNG) Market Outlook
    - 10.3.1.1. Market Size & Forecast
      - 10.3.1.1.1. By Value
    - 10.3.1.2. Market Share & Forecast
      - 10.3.1.2.1. By Technology
      - 10.3.1.2.2. By End User
  - 10.3.2. South Africa Floating Liquefied Natural Gas (FLNG) Market Outlook
    - 10.3.2.1. Market Size & Forecast
      - 10.3.2.1.1. By Value
    - 10.3.2.2. Market Share & Forecast
      - 10.3.2.2.1. By Technology
      - 10.3.2.2.2. By End User
  - 10.3.3. UAE Floating Liquefied Natural Gas (FLNG) Market Outlook
    - 10.3.3.1. Market Size & Forecast
      - 10.3.3.1.1. By Value
    - 10.3.3.2. Market Share & Forecast
      - 10.3.3.2.1. By Technology

- 10.3.3.2.2. By End User
- 10.3.4. Israel Floating Liquefied Natural Gas (FLNG) Market Outlook
  - 10.3.4.1. Market Size & Forecast
    - 10.3.4.1.1. By Value
  - 10.3.4.2. Market Share & Forecast
    - 10.3.4.2.1. By Technology
    - 10.3.4.2.2. By End User
- 10.3.5. Egypt Floating Liquefied Natural Gas (FLNG) Market Outlook
  - 10.3.5.1. Market Size & Forecast
    - 10.3.5.1.1. By Value
  - 10.3.5.2. Market Share & Forecast
    - 10.3.5.2.1. By Technology
    - 10.3.5.2.2. By End User

## **11. MARKET DYNAMICS**

- 11.1. Drivers
- 11.2. Challenge

## **12. MARKET TRENDS & DEVELOPMENTS**

## **13. COMPANY PROFILES**

- 13.1. Høegh LNG Group
  - 13.1.1. Business Overview
  - 13.1.2. Key Revenue and Financials
  - 13.1.3. Recent Developments
  - 13.1.4. Key Personnel
  - 13.1.5. Key Product/Services
- 13.2. Mitsui O.S.K. Lines, Ltd.
  - 13.2.1. Business Overview
  - 13.2.2. Key Revenue and Financials
  - 13.2.3. Recent Developments
  - 13.2.4. Key Personnel
  - 13.2.5. Key Product/Services
- 13.3. BASF SE
  - 13.3.1. Business Overview
  - 13.3.2. Key Revenue and Financials
  - 13.3.3. Recent Developments

- 13.3.4. Key Personnel
- 13.3.5. Key Product/Services
- 13.4. Golar LNG Limited
  - 13.4.1. Business Overview
  - 13.4.2. Key Revenue and Financials
  - 13.4.3. Recent Developments
  - 13.4.4. Key Personnel
  - 13.4.5. Key Product/Services
- 13.5. Eni S.p.A.
  - 13.5.1. Business Overview
  - 13.5.2. Key Revenue and Financials
  - 13.5.3. Recent Developments
  - 13.5.4. Key Personnel
  - 13.5.5. Key Product/Services
- 13.6. EXMAR GmbH
  - 13.6.1. Business Overview
  - 13.6.2. Key Revenue and Financials
  - 13.6.3. Recent Developments
  - 13.6.4. Key Personnel
  - 13.6.5. Key Product/Services
- 13.7. Woodside Energy Group Ltd
  - 13.7.1. Business Overview
  - 13.7.2. Key Revenue and Financials
  - 13.7.3. Recent Developments
  - 13.7.4. Key Personnel
  - 13.7.5. Key Product/Services
- 13.8. Shell plc
  - 13.8.1. Business Overview
  - 13.8.2. Key Revenue and Financials
  - 13.8.3. Recent Developments
  - 13.8.4. Key Personnel
  - 13.8.5. Key Product/Services
- 13.9. Excelerate Energy, Inc.
  - 13.9.1. Business Overview
  - 13.9.2. Key Revenue and Financials
  - 13.9.3. Recent Developments
  - 13.9.4. Key Personnel
  - 13.9.5. Key Product/Services
- 13.10. Petroliaam Nasional Berhad (PETRONAS)

- 13.10.1. Business Overview
- 13.10.2. Key Revenue and Financials
- 13.10.3. Recent Developments
- 13.10.4. Key Personnel
- 13.10.5. Key Product/Services

## **14. STRATEGIC RECOMMENDATIONS**

## **15. ABOUT US & DISCLAIMER**

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